PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6:	665D 81/24 A1	11) International Publication Number:	WO 97/09249					
B65D 81/24		(4	43) International Publication Date:	13 March 1997 (13.03.97)				
(21) International Application Number: PCT/HU	PCT/HU96/00044		(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, IS, JP					
(30) Priority Data:	u:			KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LY, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB,				
(71) Applicant (for all designated States except US): NATURLAND RT. [HU/HU]: Engels u. 10, H-9200 Mosconmagyardvár (HU). (72) Inventor; and (75) Inventor/Applicant (for US only): SZABÓ, József [HU/HU]: Flesch K. út 6, H-9200 Mosconmagyardvár (HU). (74) Agent: INTERINNO PATENT OFFICE, Margit krt. 73, H-1024 Budapest (HU).			GR, IE, IT, LU, MC, NL, PT, SE). Published Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.					
(54) Title: PACKING MATERIAL HAVING BIOLOGICALLY ACTIVATING EFFECT								
(ST) Abdused								

(57) Abstract

The invention relates to packing material having biologically activating effect, characterized in that one or more surface(s) of it is/are permanent magnet and/or permanent magnet insert. The packing material according to the invention is preferably used for foodstuffs, cosmetics, hygient products, medicinal products.

FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AM	Armenia	GB	United Kinedom	MW	Malawi
AT	Austria	GE	Georgia	MX	Mexico
AU	Australia	GN	Guinea	NE	Niger
BB	Barbados	GR	Greece	NL	Netherlands
BE	Belgium	HU	Hungary	NO	Norway
BF	Burkina Faso	IE	Ireland	NZ	New Zealand
BG	Bulgaria	IT	Italy	PL.	Poland
BJ	Benin	JP	Japan	PT	Portugal
BR	Brazil	KE	Kenya	RO	Romania
BY	Belarus	KG	Kyrgystan	RU	Russian Federation
CA	Canada	KP	Democratic People's Republic	SD	Sudan
CF	Central African Republic		of Korea	SE	Sweden
CG	Congo	KR	Republic of Korea	SG	Singapore
CH	Switzerland	KZ	Kazakhstan	SI	Slovenia
CI	Côte d'Ivoire	LI	Liechtenstein	SK	Slovakia
CM	Cameroon	LK	Sri Lanka	SN	Senegal
CN	China	LR	Liberia	SZ	Swaziland
CS	Czechoslovakia	LT	Lithuania	TD	Chad
CZ	Czech Republic	LU	Luxembourg	TG	Togo
DE	Germany	LV	Latvia	TJ	Tajikistan
DK	Denmark	MC	Monaco	TT	Trinidad and Tobago
BE	Estonia	MD	Republic of Moldova	UA	Ukraine
ES	Spain	MG	Madagascar	UG	Uganda
FI	Finland	ML	Mali	US	United States of America
FR	France	MN	Mongolia	UZ	Uzhekistan
GA	Gabon	MR	Mauritania	VN	Viet Nam

WO 97/09249 PCT/HU96/00044

Packing material having biologically activating effect

The invention relates to packing material having biologically activating effect.

5 Foodstuffs, cosmetics, pharmaceutical products are issued in different packing.

The products can be packed in paper cases, plastic cases or encasements, glass or porcelain or ceramic bottle, jar or box, plastic box etc.

10 The role of packing is to serve as storing container for protecting the product from external effects such as oxidation, UV radiation, drying out or evaporation. The packing can further have aesthetic purposes.

To date no packing material has been known which would

15 have biologically activating effect on the stored

We have surprisingly found that supplying the package of the products, the packing material with permanent magnet, the magnetic field created will have an influence also on

20 the product.

experienced.

product.

Our experiments have shown that the product exposed to magnetic field had a biologically more favourable effect, e.g. the active ingredient of the product was absorbed more quickly and efficiently by the body, and other 25 physiologically advantageous effects were also

The effect of magnetic field on water is described in the

Hungarian patent specification No. 187 898. According to said patent specification when the water is conducted through a pipe wich has an iron core and a magnet is placed on the mantle of the pipe, the magnetic field 5 created inhibits the deposition of scale.

The Hungarian patent application published under the number T/68 389 discloses the effect of magnetic field excerted on the growth of plants and microorganisms.

However, packing material which would activate the 10 product by magnetic field during storage and produce thereby a favourable physiological effect, have not been

described yet.

Thus, the subject of the present invention is a packing material having biologically activating effect, prefer-

15 ably for use for foodstuffs, cosmetics, hygienic and medicinal products.

The packing material is characterized in that to the surface of it one or more permanent magnet is/are fixed and/or it is provided with permanent magnetic inset.

20 The effect of the magnetic field created by the permanent magnet can optionally be increased by placing the packing material containing the product and supplied with permanent magnet, into magnetic field created by electric magnet or permanent magnet, and keeping it there for 1-60 25 minutes.

This post-treatment represents, however, only a prefer-

In most cases the permanent magnet placed into the packing material or on the surface of it, creates a magnetic field strong enough to excert suitable effect on the product.

- 5 The packing material according to the invention can be used for packing foodstuffs, e. g. coffee, tea, spices, mineral waters, fruit juices and the like, hygienic products, e.g. tooth-pastes, cosmetics, e. g. creams, tonics, gels etc.
- 10 The packing material can be a plastic or glass bottle, in this case a magnetic inset is placed into the screw cap. The packing material according to the invention can also be a paper box, where the surface of the paper is provided with one or more magnetic strip.
- 15 Within the scope of the present invention is e. g. a metal or plastic tooth-paste tube in the screw cap of which magnetic inset is placed and the screw-thread of the neck of the tube is made of magnetic material.

 Similar solution can be applied also in the case of
- The results of our experiments show that the active ingredient of the tooth-paste stored in a packing material according to the invention, is absorbed more

20 cosmetic tubes, jars.

25 e.g. the antibacterial effect of the tooth-paste is enhanced and the formation of incrustation is suppressed to a greater extent.

quickly and it has increased physiological influence,

Also in the case of beauty preparations containing active ingredients, the experiments show increased absorption, the strengthening of the effect of the active ingredient.

5 The packing material according to the invention can be made of paper, plastic, glass, porcelain, ceramic, metal, wood, leather, textile etc. What we claim is:

- Packing material having biologically activating effect, preferably for use for foodstuffs, cosmetics,
- 5 hygienic products, medicinal products, characterized in that one or more surface(s) of the packing material is/are provided with fixed permanent magnet and/or permanent magnet inset.
- 2. The packing material according to Claim 1, characterized in that into the packing material made of paper, plastic, glass, porcelain, ceramic, metal, wood, leather, textile, or on the surface of it one or more permanent magnet is placed.

INTERNATIONAL SEARCH REPORT

Intern: 1 Application No

			FC1/110 30/	00044
A. CLASS IPC 6	ification of subject matter 865D81/24			
According t	to International Patent Classification (IPC) or to both national classi	fication and IPC		
B. FIELDS	SEARCHED			
Minimum d IPC 6	locumentation searched (classification system followed by classification B65D	ion symbols)		-
Documental	tion searched other than minimum documentation to the extent that	such documents are inc	luded in the fields sea	rched
Electronic d	late base consulted during the international search (name of data bas	e and, where practical,	search terms used)	
C. DOCUM	IENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where appropriate, of the re	elevant passages		Relevant to claim No.
Х	FR,A,2 649 959 (DELBES, COCHAND, THEBAULT, BABOT) 25 January 1991 see the whole document			1,2
Х	FR,A,2 643 551 (BONTEMPS) 31 August 1990 see the whole document			1,2
х	US,A,4 872 401 (LEE) 10 October 1989 see the whole document			1,2
х	FR,A,2 590 165 (BERUS) 22 May 1987 see the whole document			1,2
Furt	her documents are listed in the continuation of box C.	X Patent family	members are listed in	annex.
A document defining the general state of the art which is not considered to be of particular relevance. "E" earlier document but published on or after the international sting data." "Comment what is may know doubte on priority darint's or "C document what to establish the publication date of another citation or other pecal reason (as specified). "O' document referring to an oral disclosure, use, exhibition or other means."		"I later document published after the international filling date clear the control of the contro		
	actual completion of the international search	Date of mailing of	the international sear	ch report
1	3 December 1996			9. 01. 97
Name and r	nailing address of the ISA	Authorized officer		
	European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rjswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Lenoir	, C	

INTERNATIONAL SEARCH REPORT

	Information on patent family members			Intern: 1 Application No PCT/HU 96/00044		
Patent document	Publication	Patent family member(s)		Publication	-	
cited in search report FR-A-2649959	25-01-91	NONE		date	_	
FR-A-2643551	31-08-90	FR-A- 2	536049	09-03-90		
US-A-4872401	10-10-89	NONE				
FR-A-2590165	22-05-87	NONE				
					ı	
					l	
					ı	
					1	
					I	
					I	
					ı	
					ı	
					١	
					l	
					I	
					ĺ	
					١	
					١	
					١	